Only 38 mm thick, HD-ready, fanless and low power usage

Barebone XS35GS V2

Slim PC

The Shuttle Barebone XS35GS V2 is a Mini-PC in the 1-litre class which, thanks to its shape can be easily fitted behind flat panel displays and therefore does not take up any space. Intel's Atom D525 Dual Core Processor (2x 1.8 GHz) and the NM10 Express chipset serve as the energy-saving hardware platform. A high-performance AMD Radeon™ HD 7410M graphics card provides streaming 3D and video playback. Thanks to the HDMI connection there is also excellent sound and picture quality. Other front and rear connections include 5 x USB, VGA, Gigabit-LAN and Audio. For wireless communication, WLAN (n) is already integrated. The small casing has room for a card reader, a 2,5" hard disk and optical slimline drive. The XS35GS V2 is 100% passively cooled, and thus virtually noiseless.

Feature Highlights

Chassis	• Slim 1.5 litre chassis • Dimensions: 25.2 x 16.2 x 3.84 cm • Hole for the Kensington Lock • Optional: VESA75/100 mounting kit PV01
Operating system	• Without operating system (compatible with Windows 7 and Windows XP)
CPU	• Intel ATOM 525 Dual Core (2x 1.8GHz)
Chipset	• Intel NM10 Express Chipset
Graphics	• AMD Radeon™ HD 7410M graphics 512MB DDR3, HDMI and VGA outputs
Memory	• 1x SO-DIMM socket (204 pins) • Supports max. 4GB DDR3-667/800
Storage	• Supports slim-line DVD or Blu-ray drive • Supports 2.5" SATA hard disk or SSD • SD card reader
Connectors and WLAN	• HDMI (Digital Video & Digital Audio) • D-Sub VGA • 5x USB 2.0 (1x front, 4x rear) • Microphone input, Headphones output • Gigabit-LAN, WLAN 802.11 b/g/n
Power supply	• External 40W fanless power supply
Applications	• Basic and Home-Media

Images are only for illustration purposes.
The optical drive is not included.

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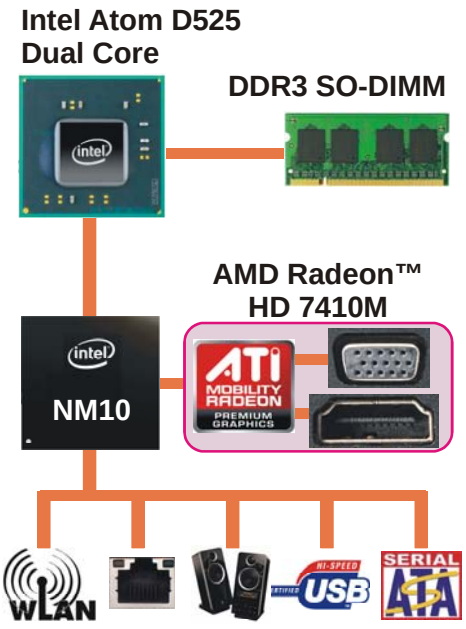
Shuttle Barebone XS35GS V2 - Product Features

Slim and stylish

Designed as a space-saver, this sleek 1.5 litre nettop PC only measures 3.8cm in width. It maximizes space whether it is placed upright using its stylish stand or affixed to the back of a display with the optional VESA mounting kit (PV01). Due to its small size and flexible design, this practical nettop offers exceptional functionality and is well-suited for home users, small offices, reception areas, classrooms, libraries, showrooms, call centres, public institutions and more.

Fanless and quiet

The Shuttle Barebone XS35GS V2 comes totally fanless making it perfect to be used in noise-sensitive environments such as living rooms, hospitals, libraries etc. As an additional benefit, fanless cases rarely gather dust on the inside and stay cleaner than others. So it's not only quiet and low in energy use, but also dust-free and virtually maintenance free.



The Atom processor integrates the memory controller

Shuttle XS35GS V2 is equipped with Intels Atom processor D525 (1.8GHz, codenamed Pineview-D). It comes with both the memory controller and graphics core on-die which helps to keep heat dissipation and memory latency low. The CPU is connected to the Southbridge NM10, codenamed Tiger Point.

Dual Core. Do more.

Shuttle always uses the dual-core variant of Intel's Atom processors and thus integrates the Atom D525. This boosts the system performance significantly with particular regards to multi-threaded applications.

AMD Radeon™ HD 7410M graphics card

Even with the small size, the Shuttle Barebone XS35GS V2 is equipped with an AMD Radeon™ HD 7410M graphics card for a power-packing slim PC that's unmatchable in size and performance – and is made for more than just entertainment. Key benefits are:

- Digital HDMI output to connect to large displays
- Digital Audio output over HDMI
- Experience video playback at full-HD 1080p resolution
- Ready to take on games
- HDMI and VGA supports dual view (clone or extended mode)

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Two monitor support with HDMI (DVI) and VGA

The built in ATI graphics card supports multiple display support on up to two separate monitors via HDMI (DVI through optional adapter) and D-Sub/VGA. This improves the capabilities and productivity of the user by allowing them to spread multiple windows over two monitors and view them simultaneously.

SD card reader

The built-in SD card reader at the front side makes it easy to transfer files from your camera so you can share videos and photos on your XS35GS V2 with ease.

What does "Barebone" mean?

Shuttle's barebones line such as the XS35GS V2 is targeted at experienced users seeking to build a complete system to meet their individual requirements. The bulk of components is yet built in, simply the following hardware is to be installed upon purchase in this case:

- One 6.35cm/2.5" Serial ATA hard disk or Solid State Disk (SSD)
- One DDR3 SO-DIMM memory module (204 pins), max. 4GB
- USB keyboard and USB mouse
- Optional Slim-line DVD writer or Blu-ray drive with 12.7mm height
- Operating system (Windows 7, Windows XP or Linux)

Highly energy-saving

The XS35GS V2 barely consumes, depending on system load, about 20.5~29 Watts. Running the device*) 5 days a week for eight hours a day, the annual consumption would amount to approx. 60kWh which would mean just 12 Euros on the power bill (20 Euro ct/kWh) - way less than a conventional desktop PC draws.
*) Based on a configuration with 2GB of memory, 500GB hard disk, DVD drive and Windows 7

XS35GS V2 supports Blu-ray

The XS35GS V2 with the AMD Radeon™ HD 7410M graphics card offers a plus in performance - experience videos and Blu-ray *) movies at full-HD 1080p quality. The Shuttle Barebone XS35GS V2 even takes on games. Benefit from an increase in performance when playing and converting videos, editing images and working with different applications at once. With AMD Radeon™ HD 7410M you get the maximum out of Windows 7.
*) Slim-line Blu-ray drive and appropriate software required

Tiny power adapter

The external 40W power adapter is virtually noiseless and can easily be hidden behind the desk thanks to its tiny dimensions.
Dimensions: 89.5 x 37 x 26.5 mm (LWH) = 88ml

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Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. As known from notebooks, this Mini-PC can also be safely locked by tieing it to a solid object.
(The lock-and-cable apparatus is not included.)

Easy installation

Remove just one screw to unmount the two chassis covers.

Optional VESA mount (Accessory PV01)

Its optional VESA75/100 wallmount allows it to be installed on to walls or just affixed on the rear side of a monitor which is particularly interesting for the industry segment, company buildings and public institutions.

24/7 nonstop operation

Shuttle XS35GS V2 is officially approved for 24/7 permanent operation. Thanks to its low power consumption and completely passively cooling, this PC runs highly reliable making it perfectly suitable for digital signage and POI/POS applications.

<u>Conditions for permanent use:</u>
- Ambient temperature while under load: 5-35°C
- Air humidity while under load: 10-90% (not condensing)
- Free circulation of air amongst the PC must be guaranteed
- Ventilation holes must be clear
- If a hard disk is installed, this must also be approved for permanent operation by its manufacturer (max. one hard disk)

Note on operating position

Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.

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Shuttle Barebone XS35GS V2 Specifications

Chassis	Dimensions without stand: 25.2 x 16.2 x 3.85 cm (DxHxW) = 1,57 litre Dimensions with stand: 25.2 x 18.5 x 10.04 cm (DxHxW) Weight: 2.1 kg net, 2.8 kg gross Hole for the Kensington Lock at the back panel Optional accessory: 75mm and 100mm VESA mounting kit (PV01) Warning: Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.
Operation System	This system comes without operating system. It is compatible with Windows 7 and Windows XP
Processor	Intel Dual-Core Atom processor D525 (Codename: Pineview-D) 45nm manufacturing process, FCBGA559 Intel Hyper-Threading technology: 2-threads per core Intel 64 architecture, Core clock: 2x 1.8GHz, L2 Cache: 1024kB , TDP: max. 13W Integrated North Bridge with controller for memory and graphics
Cooling	Passive, completely fanless cooling
Chipset	Intel® NM10 Express Chipset Platform Controller Hub (PCH), Code name: Tiger Point
BIOS	AMI BIOS in a 2Mbit Flash ROM supports PnP, ACPI 3.0, PXE, Supports external USB flash memory card boot up
Memory	Supports one module DDR3-667/800 (PC3-5300/6400), max. 4GB SO-DIMM slot with 204 pins Memory modules that are designed for higher frequencies can also be used. The installed modules then run at an actual frequency of 800 MHz.
Optical drive (opt.)	Optionally supports an optical DVD or Blu-ray slim-line drive Serial ATA interface, 12.7mm height, Slimline SATA connector
Hard disk drive	Supports one Serial ATA hard disk or one SATA SSD drive in 6.35cm/2.5" format, max. 5400 RPM, SATA 2.0 supports up to 300MB/s Supports a drive with 9.5mm height (12.5mm is not supported)
Integrated Audio	IDT92HD81 Audio Codec with Azalia support Two analog audio connectors (3.5mm): 1) Line out (head phone) 2) microphone input Digital Audio via HDMI port
Card Reader	Integrated card reader supports SD, SDHC and SDXC memory flash cards

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Discrete Graphics	AMD Radeon™ HD 7410M graphics processor (Codename "Seymore-LP") Dedicated 3D graphics card VRAM: 512MB DDR3, 800MHz, 64 bit (no shared memory) 160 Stream Processing Units, 40nm technology Supports DirectX 11, Shader Model 5.0, OpenGL 4.1 Unified Video Decoder (UVD 3) dedicated video playback accelerator Supports full HD decode (1080i/p) Support for up to 2 simultaneous displays: 1) Digital HDMI™, max. resolution: 1920x1200 2) Analog D-Sub VGA, max. resolution: 2048x1536 Supports Extended Desktop Mode and Clone Mode Supports Blu-ray play back in combination with an optional slim-line Blu-ray drive and appropriate software Integrated HD audio controller for 7.1 Surround Sound via HDMI. Supports AC-3, AAC, Dolby TrueHD and DTS Master Audio formats.
Wired Network	RJ45 connector supports Gigabit LAN at 10/100/1000 Mbit/sec. Supports Deep Sleep Mode (DSM)
Wireless Network	Supports IEEE 802.11b/g/n (Realtek RTL8188CE) Half size Mini-PCIe-Card
Connectors	HDMI v1.3 supports Digital Video and Digital Audio VGA Analog Video (D-Sub 15 pol., analog) 5x USB 2.0 (1x front, 4x rear) Network (LAN, RJ45) Audio Line-out (head phone) Microphone input DC input for power adapter
LEDs and Buttons	Power button Power LED (white), Hard disk LED (blue)
Power supply	External 40W AC/DC power adapter (fanless) AC Input: 100~240V AC, 50~60Hz Dimensions: 89.5 x 37 x 26.5 mm (LWH)
Certification and Compliance	EMI: CE, FCC, BSMI, C-Tick Safety: CB, BSMI, ETL Other compliances: RoHS, Eup Lot6

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Comparison: Shuttle Slim-PC Barebone PC XS35/XS36 Series

Model	Graphics	HDMI	DVI	D-Sub	RS232	WOL	Processor	Memory (SO-DIMM)	Other
XS35	Intel GMA3150	-	-	Yes	-	-	Intel Atom D510 (2x 1.66GHz)	Max. 2GB DDR2-800 1x SO-DIMM slot	Fast Ethernet
XS35GT	NVIDIA ION2	Yes	-	Yes	-	-			
XS35V2	Intel GMA3150	-	-	Yes	-	-	Intel Atom D525 (2x 1.80GHz)	Max. 4GB DDR3-800 1x SO-DIMM slot	Gigabit LAN
XS35GT V2	NVIDIA ION2	Yes	-	Yes	-	-			
XS35GTA V2	ATI Mobility Rad. HD 5430	Yes	-	Yes	-	-			
XS35GS V2	AMD Radeon HD 7410M	Yes	-	Yes	-	-			
XS35V3	Intel GMA3650 [2]	Yes	-	Yes	-	Yes [3]	Intel Atom D2700 (2x 2.13GHz)	Max. 4GB DDR3-1066 2x SO-DIMM slots	Gigabit LAN
XS35GTA V3 [1]	AMD Radeon HD 7410M	Yes	-	Yes	-	Yes [3]			
XS36V	Intel GMA3650 [2]	Yes	Yes	Yes	2x	Yes [3]			

[1] **XS35GTAV3** is also called **XS35GS V3** outside EU.
[2] Intel offers sophisticated graphics driver for the integrated **Intel GMA3650** graphics only for Windows 7 32 bit. Linux can be used in standard graphics mode without video acceleration. (date April 2012)
[3] Supports Wake-on-LAN (WOL), Power fail resume and Resume by RTC Alarm

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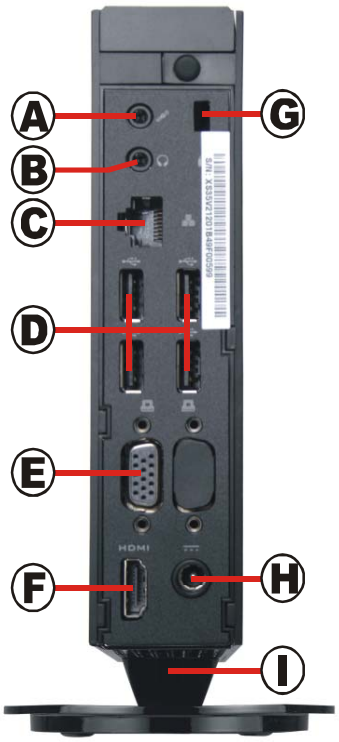
Shuttle Barebone XS35GS V2 – Connectors

Front Panel

Back Panel



1	SD card reader
2	USB connector
3	Power button with power and hard disk LED
4	Bay for optical slim drive *)
5	Stand

A	Microphone input
B	Head phone output (line out)
C	Network connector (RJ45)
D	4x USB connectors
E	VGA connector
F	HDMI connector
G	Hole for the Kensington lock
H	Connector for power adapter
I	Stand

Notes: The right D-sub port will not be functional and be covered with a cap.
*) The optical drive is not included.

Warning:
Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.

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